



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

APPLICANTS: HAHN et al.  
SERIAL NO. 10/ 722,835 ATT. DOCKET: 870-003-162  
FILED: 26 NOV. 2003 ART UNIT: 2837  
FOR: ELECTRONICALLY COMMUTATED MOTOR . . .

**INFORMATION DISCLOSURE STATEMENT**

6 APR. 2004

COMMISSIONER FOR PATENTS  
PO BOX 1450  
ALEXANDRIA VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. §§1.56, 1.97, and 1.98, Applicants wish to bring the references, listed on the attached form PTO-1449 and enclosed herewith, to the attention of the Examiner. Most of the references (or their German equivalents) were cited during the prosecution of the priority German application **DE 102 58 593.8** in the German Search Report of 23 NOV. 2003, a copy of which is enclosed herewith. The English-language equivalent of the LI reference provided suffices to make the relevance of the German document apparent. Datasheets are provided for some of the transistors mentioned on specification page 11. Therefore, **this submission complies with MPEP § 609.**

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**CERTIFICATE OF MAILING**

I hereby certify that this document is being deposited with the United States Postal Service as first class mail under 37 C.F.R. 1.80 on the date indicated below and is addressed to the Commissioner for Patents, PO BOX 1450, Alexandria VA 22313-1450.

DATE: 7 APR. 2004

*Dorothy Tomasco*  
Dorothy Tomasco

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# REMARKS

The references are in English, so their relevance is readily apparent. No representation is made that more pertinent, although presently unknown, art does not exist. It is anticipated that the Examiner will conduct a thorough search of the prior art and will carefully consider the documents submitted herewith.

The Examiner is respectfully requested to **return an initialled copy** of form PTO-1449, to confirm that the references have been considered.

Early examination and allowance of the present application are respectfully solicited. No fee is believed required; if any is required, it may be charged to Deposit Account No. 23-0442.

Respectfully submitted,

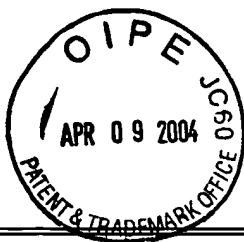
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DATE: 6 APR. 2004

Enc.:

German Search Report ("Recherche bericht") of 23 SEP.2003  
(pp. 1-3, concerning DE 102 56 198.2--priority document)  
Form PTO-1449 & references cited



Sheet 1 of 1

<b>FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT</b>				ATTY DOCKET NO. 870-003-162		SERIAL NO. 10/ 722,835	
				APPLICANTS: HAHN et al.			
				FILING DATE: 26 NOV. 2003		ART UNIT: 2830	
<b>UNITED STATES PATENT DOCUMENTS</b>							
<b>EXAM. INITIAL</b>		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>INVENTOR/ASSIGNEE</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE IF APPROPRIATE</b>
		5,610,486	MAR. '97	LI/SGS-THOMSON	318	439	
		5,771,166	JUN. '98	LIM/LG ELECTRONICS	363	132	
		5,963,024	OCT. '99	DOEMEN/PAPST	323	282	
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>INVENTOR/ASSIGNEE</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION YES/NO</b>
	DE	696 07 880-T2	SEP. '96	LI			= USP 5,610,486
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
		Patent Abstracts of Japan, English abstract of SATO + /DAIKIN JP 2001-286 179, OCT. 2001.					
		Sujit K. BISWAS, Gate Drive Methods for IGBT's in Bridge Configurations, pp. 1310-1316©1994 IEEE document 0-7803-1993-1/94.					
		Klaus BENDER et al., TAGUNGSBAND, SPS/IPC Drives, 28-30 NOV. 2000 Nürnberg, Germany.					
		LELKES et al., Single-phase External Rotor Synchronous Motor, 9 <sup>th</sup> European Conf. On Power Electronics and Applications (AUG. 2001).					
		Fairchild Semiconductor, datasheet on FQD3P50, 500V P-Channel QFET, copyright 2003.					
		Zetex Semiconductors, NPN High Voltage Transistors, 300 to 500 Volts, FMMT459, copyright 2003.					
Examiner				Date:			